=> file reg
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STRUCTURE FILE UPDATES: 26 MAY 2004 HIGHEST RN 686262-86-2 DICTIONARY FILE UPDATES: 26 MAY 2004 HIGHEST RN 686262-86-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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FILE COVERS 1907 - 27 May 2004 VOL 140 ISS 22 FILE LAST UPDATED: 26 May 2004 (20040526/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 31
                                                           1 CA:-reference
applicant
STEREO ATTRIBUTES: NONE
L31
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L32
               1 SEA FILE=HCAPLUS ABB=ON L31
=> d 132 all hitstr
L32 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
     2001:64273 HCAPLUS
DN
     134:132920
     Entered STN: 26 Jan 2001
ΕD
     Manufacture of water-soluble polyazo dyes useful for poly(vinyl
     alcohol)-based polarizing films in liquid crystal projector green channels
     Oiso, Shoji; Ishii, Kumiko; Kajiwara, Yoshitaka; Tabei, Toru
IN
PΑ
     Nippon Kayaku Kabushiki Kaisha, Japan
SO
     PCT Int. Appl., 40 pp.
     CODEN: PIXXD2
DT
     Patent
LΆ
     Japanese
IC
     ICM G02B005-30
     ICS G03B021-00; C09B031-20; C08L029-04
     41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic
CC
     Sensitizers)
     Section cross-reference(s): 38, 73, 74
FAN.CNT 1
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APPLICATION NO. DATE

KIND DATE

PATENT NO.

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     WO 2001006281
                             20010125
                       Α1
                                            WO 2000-JP4658
                                                              20000712
         W: CA, CN, KR, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
     JP 2001027708
                       A2
                             20010130
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                                                              19990714
     JP 2001033627
                       A2
                             20010209
                                            JP 1999-211148
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     JP 2001056412
                       A2
                             20010227
                                            JP 1999-234058
                                                              19990820
     EP 1203969
                                            EP 2000-946278
                       A1
                             20020508
                                                              20000712
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI, CY
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     JP 1999-234058
                       Α
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     WO 2000-JP4658
                       W
                             20000712
OS
     MARPAT 134:132920
GΙ
```

$$A-N=N$$

$$R^{2}$$

$$N=N$$

$$R^{3}$$

$$N=N$$

$$HO_{3}S$$

$$I$$

AΒ The polyazo dyes having maximum absorption wave length 520-580 nm are compds. of AN:NX(N:NZ)nN:NYB type {when A = sulfonic acid-containing Ph, B = amino- or OH-containing benzamide; n = 1; when A = 4-[2'-(4''-amino(ornitro)-2''-sulfonatophenyl)ethenyl]-3-sulfonatophenyl group, B = optionally ring-substituted N:NPh group; n = 0, 1; X, Z = phenylene or substituted phenylene; Y = 2-hydroxy-8-sulfonatonaphthalene-1,5-diyl

STpolyazo dye polyvinyl alc polarizing film manuf; liq crystal projector green channel polarizing film manuf dye; copper complex polyazo dye manuf ΙT

Liquid crystal displays

(color; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

ΙT Polarizing films

(manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT

(water-soluble, polyazo dyes; manufacture of water-soluble polyazo dyes useful for

poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

1325-54-8, C.I. Direct Orange 39 25188-42-5, C.I. Direct Red 81 IT RL: TEM (Technical or engineered material use); USES (Uses)

(dye; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT9012-09-3, Fuji Tac FT-UV 80

RL: TEM (Technical or engineered material use); USES (Uses)

(polarizing film coating; manufacture of water-soluble polyazo dyes useful

for

poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT 9002-89-5, Poly(vinyl alcohol)

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(polarizing film; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

IT 87-02-5, J Acid 95-78-3, 2,5-Dimethylaniline 102-56-7, 2,5-Dimethoxyaniline 108-95-2, Phenol, reactions 119-72-2 119-77-7, p-Aminobenzoyl J Acid 120-71-8, p-Cresidine 121-57-3, Sulfanilic acid 2491-71-6, 4-Aminoazobenzene-4'-sodium sulfonate 80427-50-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for polyazo dyes; manufacture of water-soluble polyazo dyes useful
for poly(vinyl alc.)-based polarizing films in liquid crystal projector

green channels)
IT 321859-87-4P 321859-88-5P 321859-89-6P 321859-90-9P 321859-91-0P 321864-83-9P 321864-85-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(triazo dye; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) Nippon Kayaku Co Limited; JP 378703 A 1991
- (2) Nippon Kayaku Co Limited; JP 11125815 A 1999
- (3) Nippon Kayaku Co Limited; JP 11218610 A 1999 HCAPLUS
- (4) Sumitomo Chemical Company Limited; JP 10259311 A 1998 HCAPLUS
- IT 321859-89-6P 321859-90-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(triazo dye; manufacture of water-soluble polyazo dyes useful for poly(vinyl alc.)-based polarizing films in liquid crystal projector green channels)

RN 321859-89-6 HCAPLUS

CN

2-Naphthalenesulfonic acid, 3-[[2,5-dimethoxy-4-[[4-[2-(4-nitro-2-sulfophenyl)ethenyl]-3-sulfophenyl]azo]phenyl]azo]-4-hydroxy-7-[(4-hydroxyphenyl)azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 321859-90-9 HCAPLUS

CN 2-Naphthalenesulfonic acid, 4-hydroxy-7-[(4-hydroxyphenyl)azo]-3-[[2-methoxy-5-methyl-4-[[4-[2-(4-nitro-2-sulfophenyl)ethenyl]-3-sulfophenyl]azo]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

N=N
N=N
N=N
N=N
CH=
CH=

PAGE 1-B

SO3H

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	Туре	Hits	Search Text	DBs
1	BRS	2	"11218610"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
2	BRS	1	"11125815"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
3	BRS	3	"05295281"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
4	BRS	6	"01313568"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
5	BRS	0	"631898803"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
6	BR\$	2	"63189803"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
7	BRS	91	"10259311" or "11218610" or "11125815" or "378703" or "3078703" or "03078703" or "09132726" or "05295281" or "01313568" or "631898803" or "63-189803" or "63-189803" or "60-156759 or "60156759" or 59-145255 or "59145255" or 60-168743 or "60168743" or "03012606"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
8	BRS	1261	green near channel	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

	Туре	Hits	Search Text	DBs
9	BRS	157	lcd and (green near channel)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
10	BRS	95	polarizing and (green near channel)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
11	BRS	0	green near channel) same(azo same dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
12	BRS	0	green near channel same azo same dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
13	BRS	71	(polarizing or polarizer) and (green near channel) and lcd	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
14	BRS	0	((polarizing or polarizer) and (green near channel) and lcd) and (azo same dye)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
15	BRS	0	((polarizing or polarizer) and (green near channel) and Icd) and azo	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
16	BRS	586	((polarizing or polarizer) same (green same filter)) and lcd	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
17	BRS	229	azo same dye same (polarizing or polarizer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

	Туре	Hits	Search Text	DBs
18	BRS	10490	polyvinylalcohol	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
19	BRS	133857	polyvinyl near alcohol	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
20	BRS	95164	polarizing or polarizer	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
21	BRS	23456	azo near dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
22	BRS	140236	polyvinylalcohol or (polyvinyl near alcohol)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
23	BRS	304	(azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol))	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
24	BRS	0	((((azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol))) same (polarizing or polarizer)) and lcd) and green	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
25	BRS	3	"10259311"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
26	BRS	16	"378703"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

•	Туре	Hits	Search Text	DBs
27	BRS	4	"03078703"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
28	BRS	2	"09132726"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
29	BRS	4	"63-189803"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
30	BRS	8	"03012606"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
31	BRS	5	"60168743"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
32	BRS	11.	60-168743	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
33	BRS	5	"59145255"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
34	BRS	10	59-145255	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
35	BRS	2	"60156759"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR

	Туре	Hits	Search Text	DBs
36	BRS	10	60-156759	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
37	BRS	15	("10259311" or "11218610" or "11125815" or "378703" or "3078703" or "03078703" or "09132726" or "05295281" or "01313568" or "631898803" or "63-189803" or "63-189803" or "60156759" or 59-145255 or "59145255" or 60-168743 or "60168743" or "03012606") and green	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
38	BRS	17	("10259311" or "11218610" or "11125815" or "378703" or "3078703" or "03078703" or "09132726" or "05295281" or "01313568" or "631898803" or "63-189803" or "63-189803" or "60156759" or 59-145255 or "59145255" or 60-168743 or "60168743" or "03012606") and red	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
39	BRS	105	polarizer and (green near channel)	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
40	BRS	84	(green near channel) same dye	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
41	BRS	19	"3078703"	USPAT; US-PGPUB; EPO; JPO; DERWENT; USOCR
42	BRS	1	"5659020".PN.	USPAT
43	BRS	1	"5700296".PN.	USPAT

	Туре	Hits	Search Text	DBs
44	BRS	1	((green near channel) same dye) same polarizer	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
45	BRS	6	((green near channel) same dye) and (azo near dye)	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
46	BRS	4	((green near channel) same dye) same polarizing	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
47	BRS	12	((polarizing or polarizer) and (green near channel) and lcd) and dye	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
48	BRS	19	(((polarizing or polarizer) same (green same filter)) and lcd) and (azo same dye)	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
49	BRS	45	(azo same dye same (polarizing or polarizer)) and lcd	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
50	BRS	21	((azo same dye same (polarizing or polarizer)) and lcd) and green	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
51	BRS	46	((azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol))) same (polarizing or polarizer)	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR
52	BRS	9	(((azo near dye) same (polyvinylalcohol or (polyvinyl near alcohol))) same (polarizing or polarizer)) and lcd	USPAT; US-PGPUB; EPO JPO; DERWENT; USOCR

Access DB# 123019

SEARCH REQUEST FORM

Scientific and Technical Information Center

		,	
Requester's Full Name: SOW Art Unit: Phone N Mail Box and Bldg/Room Location	-FUN HON Number 30 2 - 149 1: Res	Examiner #: 77463 Date: 05/26/0 2 Serial Number: 10/018 85/ ults Format Preferred (circle): PAPER DISK E-MAII	_
If more than one search is subm	itted, please prioriti	ze searches in order of need.	
Please provide a detailed statement of the Include the elected species or structures, k	search topic, and describe eywords, synonyms, acroi that may have a special m	as specifically as possible the subject matter to be searched. nyms, and registry numbers, and combine with the concept or eaning. Give examples or relevant citations, authors, etc, if	
Title of Invention: DIE T	TPE POLAR	U TABE	
Inventors (please provide full/names):	1. SHOTI 0130	, Kuniko ISHII.	-
YOSHIMIKA FATI	WARA TOR	II TABFI	-
Farliest Priority Filing Date: ()	114199		-
*For Sequence Search or Only * Blasse include			
appropriate serial number.	te au pertineut information ((parent, child, divisional, or issued patent numbers) along with the	
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appropriate serial number. PLEASE SEARC NAWKI			
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STAFF USE ONLY	Type of Search	Vendors and cost where applicable	
earcher: J. Mill	NA Sequence (#)	STN	
earcher Phone #:	AA Sequence (#)	Dialog	
earcher Location:	Structure (#)	Questel/Orbit	
Date Searcher Picked Up:	Bibliographic	Dr.Link	
hate Completed: 5/2//04	Litigation	Lexis/Nexis	
earcher Prep & Review Time:	Fulltext	Sequence Systems	
Herical Prep Time:	Patent Family	WWW/Internet	
Inline Time:	0.1	E4 ('6)	

PTO-1590 (8-01)